

## CLAIMS

1. An engineered carbonaceous material comprising a mixture of synthetic graphite and one or more graphite materials selected from the group consisting of natural flake graphite, natural vein graphite, and amorphous graphite.
2. An engineered carbonaceous material comprising a mixture of expanded graphite and one or more graphite materials selected from the group consisting of natural flake graphite, natural vein graphite, amorphous graphite, and synthetic graphite.
3. The material of Claim 1 were in the mixture comprises between 0.1 and 99.9 wt. % synthetic graphite.
4. The material of Claim 2 were in the mixture comprises between 0.1 and 99.9 wt. % expanded graphite.
5. The material of Claim 1 further comprising 0.01 to 20.0 wt. %  $\text{MnO}_2$ .
6. The material of Claim 2 further comprising 0.01 to 20.0 wt. %  $\text{MnO}_2$ .
7. The material of Claim 1 further comprising 0.01 to 20.0 wt. % of a conductive electrode active material.

8. The material of Claim 2 further comprising 0.01 to 20.0 wt. % of a conductive electrode active material.
9. The material of Claim 1 wherein the graphite has a particle size between 3 micrometers and 90 micrometers.
10. The material of Claim 2 wherein the graphite has a particle size between 3 micrometers and 90 micrometers.
11. The material of Claim 1 wherein the graphite as a purity of between 90.0 and 99.9 % LOI.
12. The material of Claim 2 wherein the graphite as a purity of between 90.0 and 99.9 % LOI.
13. A method of making a material according to Claim 1 comprising co-grinding the graphite components.
14. The method of making a material according to Claim 1 comprising co-blending the graphite components.
15. The method of making a material according to Claim 2 comprising co-grinding the graph components.

16. The method of making a material according to Claim 2 comprising co-blending the graphite components.

17. The method of making a material according to Claim 5 comprising co-grinding the graphite materials.

18. The method of making a material according to Claim 5 comprising co-blending the graphite materials.

19. An electrochemical cell having an electrolyte, a negative electrode and a positive electrode, the positive electrode comprising a mixture including a carbonaceous material as set forth in Claim 1.

20. An electrochemical cell having an electrolyte, a negative electrode and a positive electrode, the positive electrode comprising a mixture including a carbonaceous material as set forth in Claim 2.

21. An electrochemical cell having an electrolyte, a negative electrode and a positive electrode, the positive electrode comprising a mixture including a carbonaceous material as set forth in Claim 5.